

CS3560 Team K Final Project Proposal

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Team Members

- Bryan Long will be designated to video demonstration
- Daizo Mori will be designated to main author of the mid project report
- Daniel Schell will be designated to main author of the user manual
- Sam Foucart will be designated to main author of the blog post

We will share responsibility for coding, research, and writing the final report. We will also assist main authors on their reports if they need it.

Motivations

The motivation of this project is to simplify tracking packages that are ordered online. Without an application like this, the only way to track packages would be to sort through emails that can get lost or moved to spam folders. With our application, it would all be stored in one place so they can be easily accessed.

Methodology

We will use the Amazon MWS API for Node.js to get order information from the user. We will create a GUI fronted with Electron.js, so that the application can also be written in Node.js, and can be rolled out on all platforms that support Electron.js such as Windows, Linux, and MacOS. The Amazon MWS has an Orders API and a Fulfillment Outbound Shipment API which has a `GetPackageTrackingDetails` function. The code will call from the API and display it to the user using an Electron.js frontend. The application will be distributed using `electron-forge`.

We will test the application by using it on our own Amazon accounts. Daniel frequently orders things on Amazon so we won't have to worry about not having an account with orders to track.

The end user will open a desktop application and enter their Amazon account information or order ID, and then they will be able to see all of their order and package information.

Milestones

By April 18th we should have code pulling account and order information without a GUI frontend. Also by April 18th a blog post will be done describing any problems we have had on developing our project. Then by April 25th we should have a minimalist frontend without much CSS material styling. Also on April 25th a report detailing what we have accomplished so far will be produced. Work on a user manual, detailing how to operate our program will start by April 25th, and be done by the 29th at the latest. Then by April 29th, the CSS styling should be done. And by April 30th, all edge cases should be tested, such as if the user enters an account that doesn't exist, the program shouldn't crash if they push buttons. And it shouldn't break if they don't put in an order correctly.